

- Gulfco Marine Maintenance Site Boundary (approximate)
- Shallow Soil Sample (0-2 ft)
- Shallow (0-2 ft) and Deep (4-5 ft)
- 3. Light blue highlighted values are higher than maximum background concentrations (See Figure 8 for background soil data).
- concentration for that compound.
- * The compounds shown in the figure are the compounds that were detected at a concentration greater than the screening

GULFCO MARINE MAINTENANCE

EXCEEDING ECOLOGICAL SCREENING LEVELS FOR SOIL INVERTEBRATES*

REVISIONS

PASTOR, BEHLING & WHEELER, LLC CONSULTING ENGINEERS AND SCIENTISTS



- Gulfco Marine Maintenance
 Site Boundary (approximate)
- Shallow Soil Sample (0-2 ft)
- Shallow (0-2 ft) and Deep (4-5 ft) Soil Sample

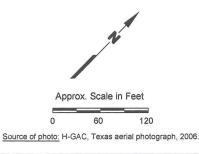
Notes:

- Data Qualifiers: J = Estimated value.
 J- = Estimated value, biased low.
- 2. BGS = below ground surface.
- Light blue highlighted values are higher than maximum background concentrations (See Figure 8 for background soil data).
- Bold values are the maximum measured concentration for that compound.
- * The compounds shown in the figure are the compounds that were detected at a concentration greater than the screening level (See Tables 1 & 2).

 The screening levels are:

 Boron 0.5 mg/Kg

 Chromium 0.4 mg/Kg



GULFCO MARINE MAINTENANCE FREEPORT, BRAZORIA COUNTY, TEXAS

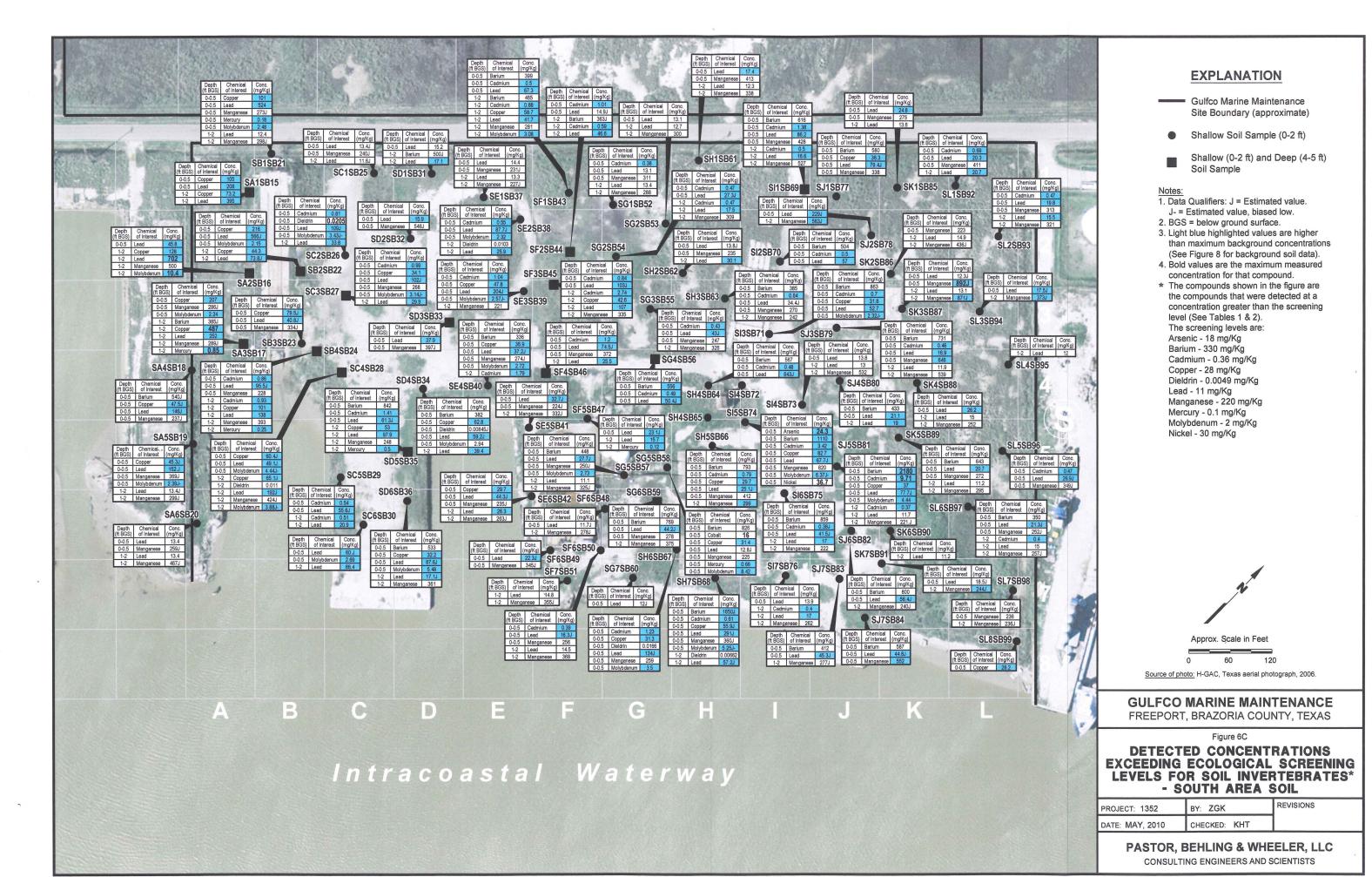
Figure 6B

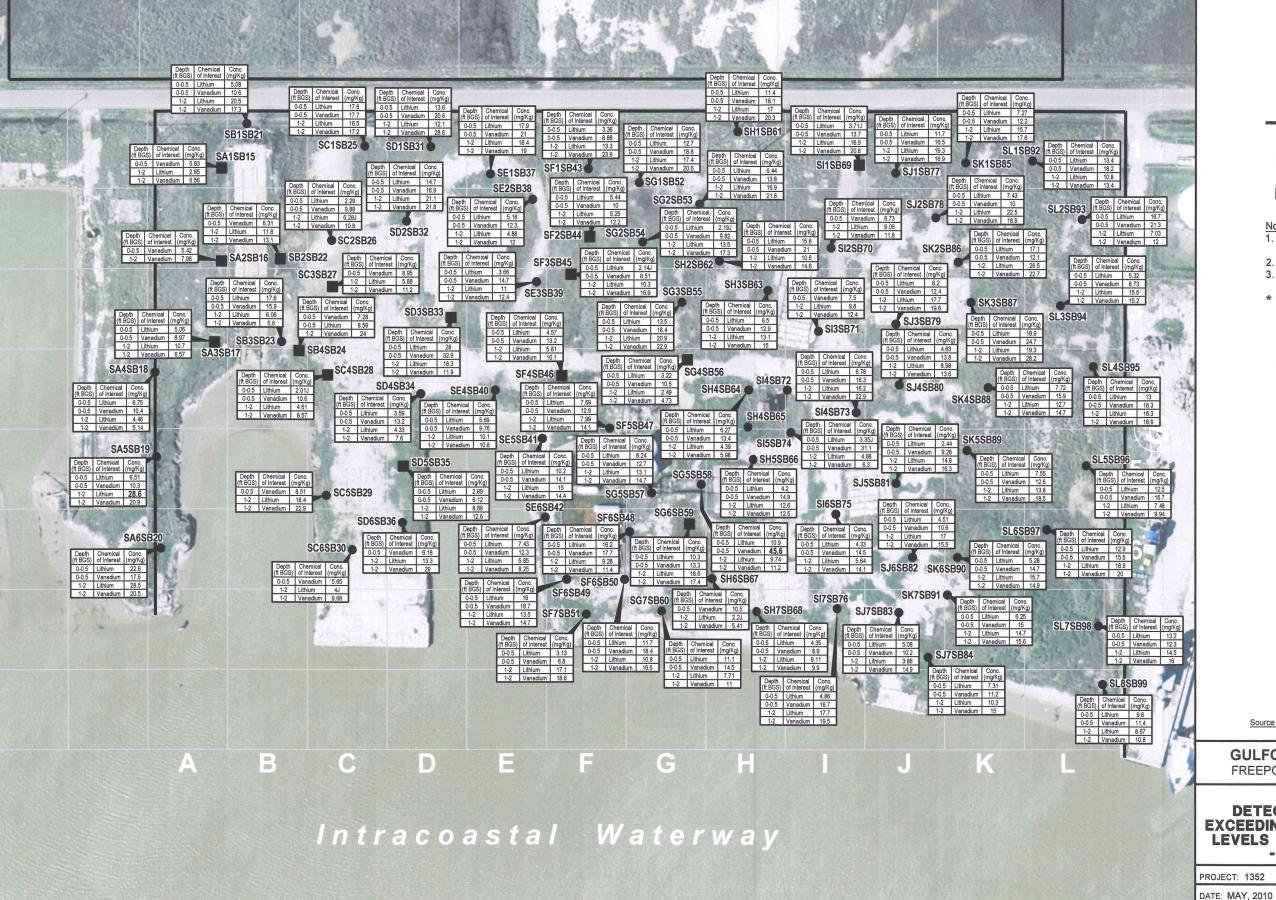
DETECTED CONCENTRATIONS
EXCEEDING ECOLOGICAL SCREENING
LEVELS FOR SOIL INVERTEBRATES*
- SOUTH AREA SOIL

REVISIONS

	PROJECT: 1352	BY: ZGK
	DATE: MAY, 2010	CHECKED: KHT

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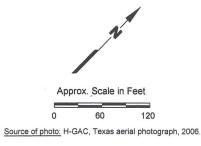


Gulfco Marine Maintenance Site Boundary (approximate)

- Shallow Soil Sample (0-2 ft)
- Shallow (0-2 ft) and Deep (4-5 ft) Soil Sample

- 1. Data Qualifiers: J = Estimated value. J- = Estimated value, biased low.
- 2. BGS = below ground surface.
- 3. Bold values are the maximum measured concentration for that compound.
- * The compounds shown in the figure are the compounds that were detected at a concentration greater than the screening level (See Tables 1 & 2). The screening levels are:

Lithium - 2 mg/Kg Vanadium - 2 mg/Kg



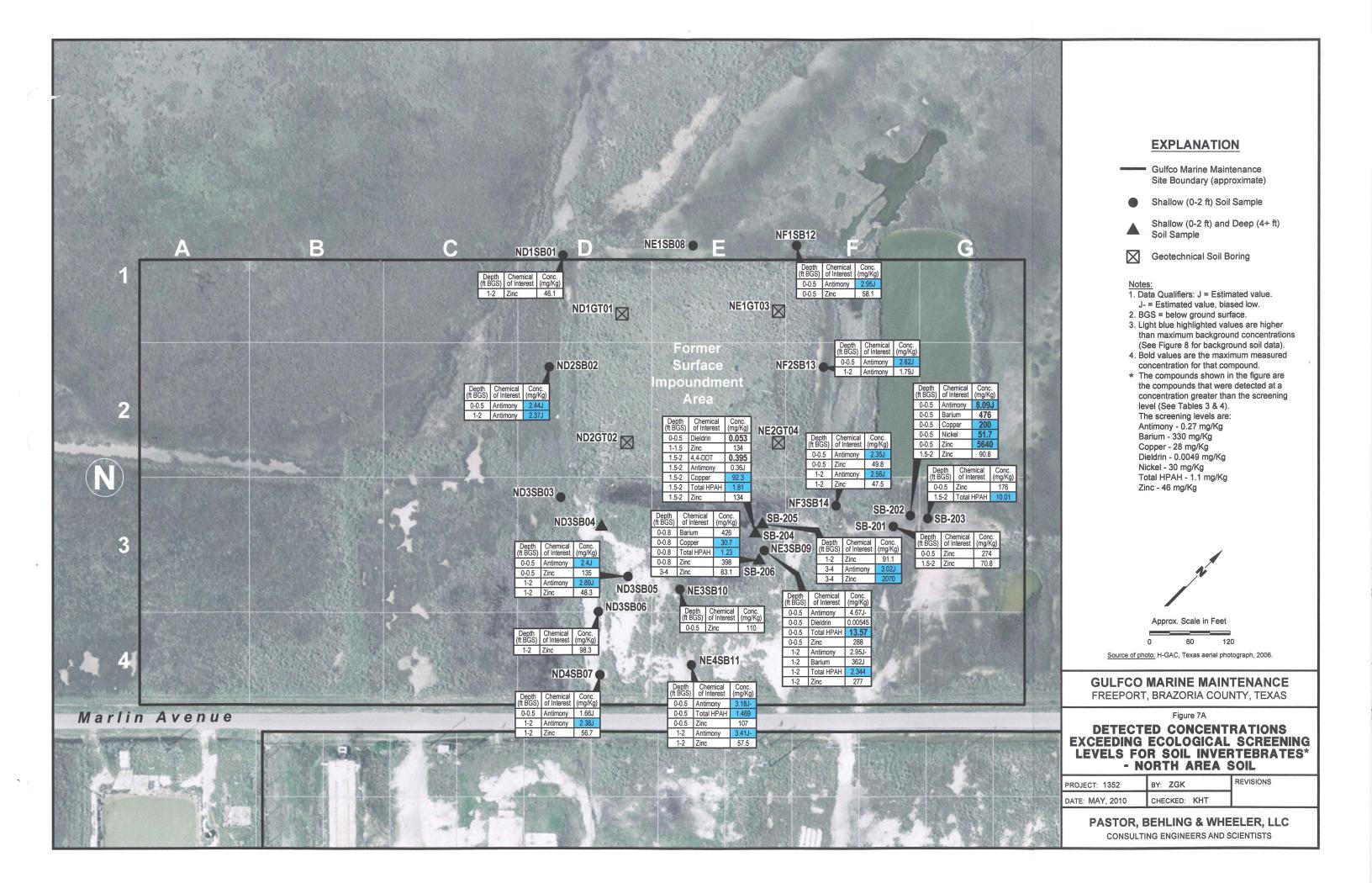
GULFCO MARINE MAINTENANCE FREEPORT, BRAZORIA COUNTY, TEXAS

Figure 6D

DETECTED CONCENTRATIONS EXCEEDING ECOLOGICAL SCREENING LEVELS FOR SOIL INVERTEBRATES* - SOUTH AREA SOIL

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Gulfco Marine Maintenance
 Site Boundary (approximate)

Shallow (0-2 ft) Soil Sample

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Shallow (0-2 ft) and Deep (4+ ft) Soil Sample

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Geotechnical Soil Boring

Notes

- Data Qualifiers: J = Estimated value.
 J- = Estimated value, biased low.
- 2. BGS = below ground surface.
- Light blue highlighted values are higher than maximum background concentrations (See Figure 8 for background soil data).
- 4. Bold values are the maximum measured concentration for that compound.
- * The compounds shown in the figure are the compounds that were detected at a concentration greater than the screening level (See Tables 3 & 4).

 The screening levels are:
 Boron 0.5 mg/Kg
 Chromium 0.4 mg/Kg
 Lithium 2 mg/Kg
 Vanadium 2 mg/Kg



Approx. Scale in Feet
0 60 120

Source of photo: H-GAC, Texas aerial photograph, 2006.

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Figure 7B

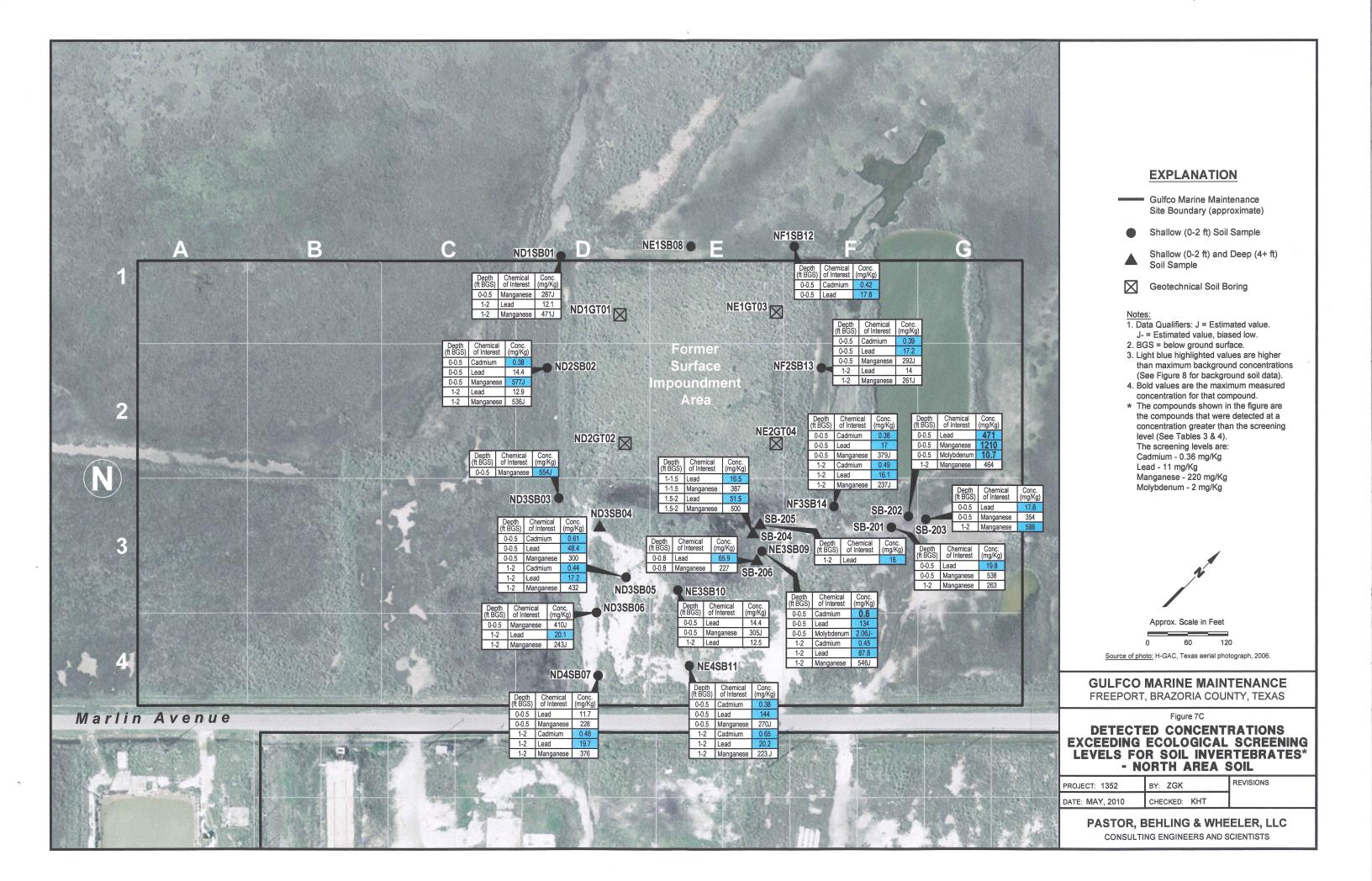
DETECTED CONCENTRATIONS
EXCEEDING ECOLOGICAL SCREENING
LEVELS FOR SOIL INVERTEBRATES*
- NORTH AREA SOIL

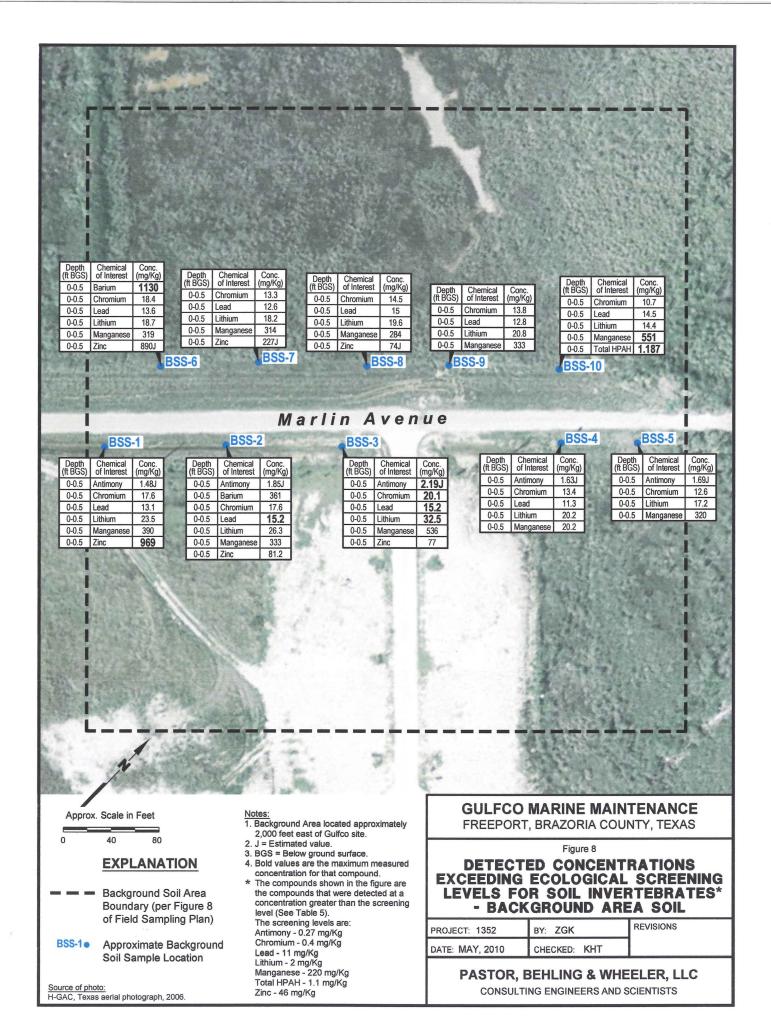
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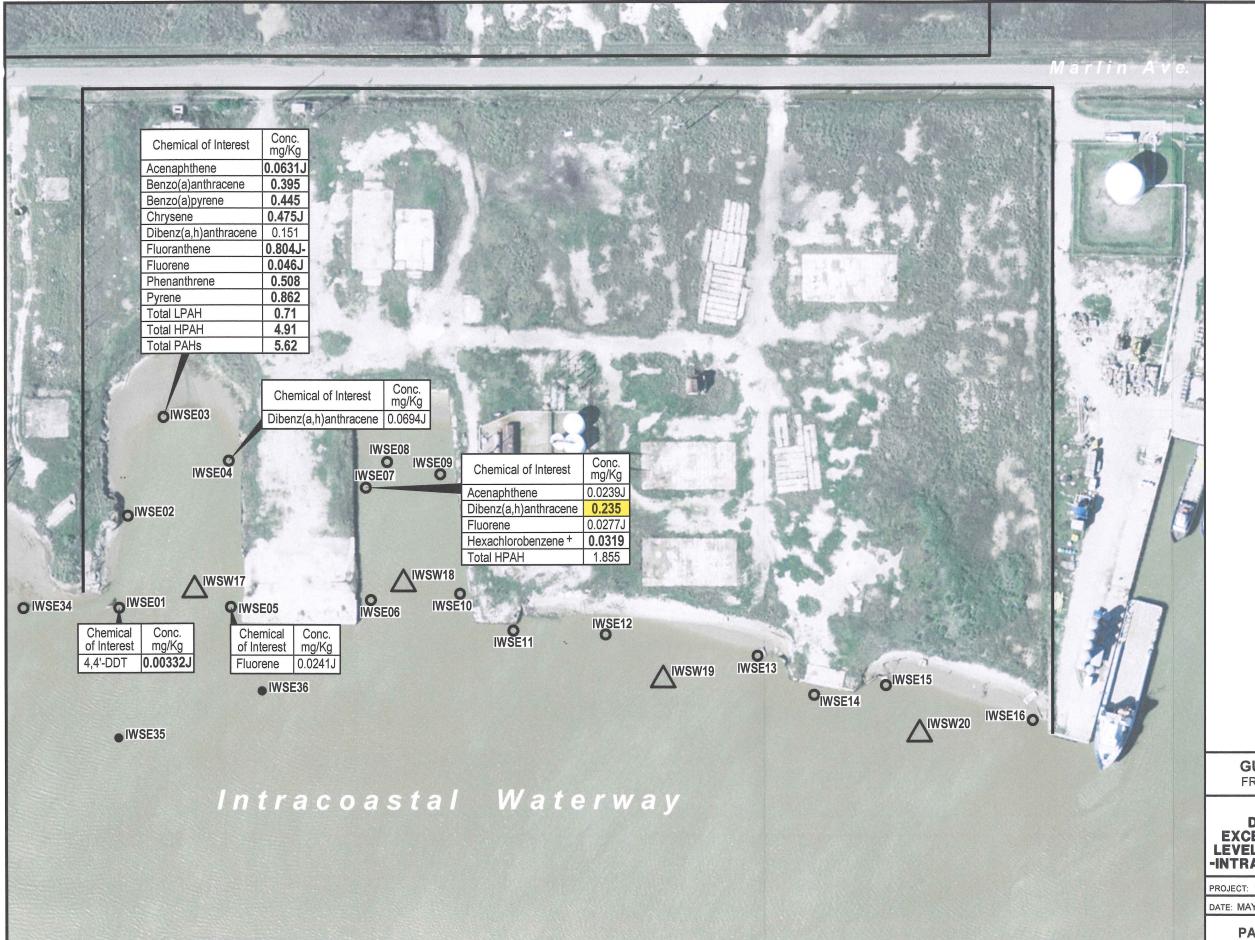
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Gulfco Marine Maintenance
Site Boundary (approximate)

Intracoastal Waterway
 Sediment Sample

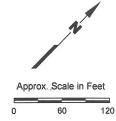
 Δ :

Intracoastal Waterway Surface Water Sample

Attempted Intracoastal Waterway Sediment Sample (not enough sediment present to allow for sampling)

Note

- Data Qualifiers: J = Estimated value.
 J- = Estimated value, biased low.
- Total PAH concentrations were calculated using ½ of the sample detection limit as a proxy value for undetected PAHs.
- Bold values are the maximum measured concentration for that compound.
- * Values shown in the figure exceed the Effects Range Low (ERL) (See Table 6). Yellow highlighted values exceed the midpoint of the ERL and Effects Range Medium (ERM).
- + Value exceeds the Apparent Effects Threshold (AET). The ERLS are: 4,4'-DDT - 0.0012 mg/Kg Acenaphthene - 0.016 mg/Kg Benzo(a)anthracene - 0.261 mg/Kg Benzo(a)pyrene - 0.430 mg/Kg Chrysene - 0.384 mg/Kg Dibenz(a,h)anthracene - 0.0634 mg/Kg Fluoranthene - 0.6 mg/Kg Fluorene - 0.019 mg/Kg Hexachlorobenzene (AET) - 0.006 mg/Kg Phenanthrene - 0.24 mg/Kg Pyrene - 0.665 mg/Kg Total LPAH - 0.552 mg/Kg Total HPAH - 1.7 mg/Kg Total PAH - 4.02 mg/Kg



Source of photo: H-GAC, Texas aerial photograph, 2006.

GULFCO MARINE MAINTENANCE FREEPORT, BRAZORIA COUNTY, TEXAS

Figure 0

DETECTED CONCENTRATIONS EXCEEDING ECOLOGICAL SCREENING LEVELS FOR BENTHIC INVERTEBRATES* -INTRACOASTAL WATERWAY SEDIMENT

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